THILAN TRAN

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EDUCATION:

University of California, Los Angeles **September 2018—June 2022** *(expected)*
B.S. Computer Science *3.99 GPA*
Relevant Coursework

- Operating Systems — *(in progress)*
- Software Construction Lab — *UNIX, Bash, Python, Git, Parallelism*
- Computer Architecture — *Machine and Assembly Level Organization, Optimization, Parallelism*
- Data Structures and Algorithms — *C++*

PROJECTS:

Terreform *(JavaScript, React, CSS)* **Fall 2019**
UCLA Creative Labs Project *Los Angeles*

- A donation website for non-profit organizations fighting climate change featuring interactive environments rendered using ThreeJS that evolve over time as users donate.
  - Implemented a UX-focused and fluid interface design with validated forms and CSS animated transitions.
  - Integrated client events, frontend component rendering, and the ThreeJS container together to create dynamic, animated biomes where every donation corresponds to an interactive object in the environment.

Restock *(Python, Flask, JavaScript, React)* **Summer 2019**
Side Project *Los Angeles*

- A full-stack, stock trading simulator website employing websockets for instant updates.
  - Utilized Flask for backend requirements and SQLAlchemy as an ORM database technology.
  - Integrated websocket capabilities using SocketIO to push real-time notifications to the client.
  - Designed and developed an interface with graphed analytics and filterable data using React.
  - Optimized server performance with a hierarchical schema, reducing database loads and socket updates.
  - Deployed with Heroku and PostgreSQL.

How is the World Feeling Today? *(Node.js, CSS)* **March 2019**
LA Hacks *Los Angeles*

- A webapp displaying recent trending topics and articles of world regions from the Taboola API and analyzing their associated average “sentiment” using the Google Natural Language API.

Genome Sequencer *(C++)* **Spring 2019**
UCLA *Los Angeles*

- A genome sequencer designed to efficiently parse through, organize, and analyze hundreds of thousands of DNA base-pairs by utilizing a Trie data structure with string keys.
  - Implemented efficient recursive algorithms to traverse the Trie and locate exact sequence matches, near-identical matches to account for possible mutations, and genomes related by a certain percentage.

EXPERIENCE:

DevX **Fall 2019—Present**
Frontend Developer *UCLA*

- Using React to create the frontend for the **Twain** project, a “smart-scheduler” chrome extension integrated with Google Calendar designed to optimize and schedule task lists with scheduling algorithms.

IEEE Open Project Space **September 2018—June 2019**
Member *UCLA*

- Received hands-on experience in several electrical engineering projects involving microcontroller programming, circuit construction, sensors, PCB design, and THT and SMT soldering.
- Built a maze-navigating car utilizing IR sensors, H-bridge drivers, and PID motor controllers as a final project.

SKILLS:

- *Languages* — C/C++, Java, Python, JavaScript, CSS, SQL
- *Frameworks/Tools* — UNIX, Git, Flask, Node.js, React/Redux, NumPy
- *Hardware* — Arduino Programming, Circuitry and Soldering